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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

04/10/2009

Siemens Corporation Intellectual Property Department 170 Wood Avenue South Iselin, NJ 08830 EXAMINER

PERUNGAVOOR, SATHYANARAYA V

ART UNIT

PAPER NUMBER

2624

DATE MAILED: 04/10/2009

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/796,864 | 03/09/2004 | Cheng-Chung Liang | 2003P03674US01 | 2679 |

TITLE OF INVENTION: IMAGE SEGMENTATION IN A THREE-DIMENSIONAL ENVIRONMENT

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 07/10/2009 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

| appropriate. All further correspondence including the Patent, advance orders and notification indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) 7590 04/10/2009 Siemens Corporation Intellectual Property Department 170 Wood Avenue South | | | | ation of maintenance fees will be mailed to the current correspondence address as ew correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. | | | | | | | | | | |
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| | | | | | | | | Iselin, NJ 08830 |) | | | | | (Depositor's name) |
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| | | | L | | | | (Date) | | | | | | | |
| APPLICATION NO. | FILING DATE | | FIRST NAMED INVENTO |)R | ATTO | RNEY DOCKET NO. | CONFIRMATION NO. | | | | | | | |
| 10/796,864 | 03/09/2004 | | Cheng-Chung Liang | | 20 | 003P03674US01 | 2679 | | | | | | | |
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| nonprovisional | NO | \$1510 | \$300 | \$0 ¬ | | \$1810 | 07/10/2009 | | | | | | | |
| DEPLINGA VOOD S | | ART UNIT 2624 | CLASS-SUBCLASS 382-128000 | _ | | | | | | | | | | |
| PERUNGAVOOR, SATHYANARAYA V 2624 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. | | | 2. For printing on the (1) the names of up or agents OR, alterna (2) the name of a sin registered attorney o | on the patent front page, list of up to 3 registered patent attorneys alternatively, f a single firm (having as a member a rney or agent) and the names of up to tent attorneys or agents. If no name is | | | | | | | | | | |
| PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI | less an assignee is ident th in 37 CFR 3.11. Comp GNEE | ified below, no assignee pletion of this form is NC | OT a substitute for filing a | patent. If an assign n assignment. TY and STATE OR | COUNT | TRY) | ocument has been filed for | | | | | | | |
| Please check the appropri | riate assignee category or | r categories (will not be p | orinted on the patent): | ┛ Individual □ C | Corporati | on or other private gro | up entity 🖵 Government | | | | | | | |
| 4a. The following fee(s) ☐ Issue Fee | are submitted: | 4 | b. Payment of Fee(s): (Pl | | ny prev | iously paid issue fee s | hown above) | | | | | | | |
| | No small entity discount p | permitted) | Payment by credit of | | 8 is atta | iched. | | | | | | | | |
| Advance Order - | # of Copies | | The Director is here overpayment, to De | by authorized to cha posit Account Numb | rge the | required fee(s), any def (enclose ar | iciency, or credit any extra copy of this form). | | | | | | | |
| 5. Change in Entity Sta | atus (from status indicate | · · · · · · · · · · · · · · · · · · · | ☐ b. Applicant is no le | | | | PD 1.27(-)/2) | | | | | | | |
| NOTE: The Issue Fee an | nd Publication Fee (if req | uired) will not be accepte | ed from anyone other than | | | | e assignee or other party in | | | | | | | |
| interest as shown by the | records of the United Sta | ites Patent and Trademar | k Office. | | | | | | | | | | | |
| Authorized Signature | | | | Date | | | | | | | | | | |
| Typed or printed name | | | | - | | | | | | | | | | |
| This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223 | ntiality is governed by 35 dapplication form to the ions for reducing this bu Virginia 22313-1450. DC | CFR 1.311. The information U.S.C. 122 and 37 CFR EUSPTO. Time will varied, should be sent to the DONOT SEND FEES OR | ion is required to obtain of 1.14. This collection is of the pending upon the incomplete in the chief Information Off COMPLETED FORMS | r retain a benefit by estimated to take 12 lividual case. Any c icer, U.S. Patent and TO THIS ADDRES | the publ minutes omment Traden S. SENI | lic which is to file (and s to complete, including s on the amount of tin nark Office, U.S. Depa D TO: Commissioner f | by the USPTO to process) g gathering, preparing, and ne you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450, | | | | | | | |

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

OMB 0651-0033

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| 75 | 90 04/10/2009 | | EXAM | INER | |
| Siemens Corporation | | | PERUNGAVOOR, SATHYANARAYA V | | |
| Intellectual Propert | y Department | ART UNIT | PAPER NUMBER | | |
| 170 Wood Avenue Iselin, NJ 08830 | South | | 2624 DATE MAILED: 04/10/200 | 9 | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 677 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 677 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

| | Application No. | Applicant(s) | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|--|
| | 10/796,864 | LIANG, CHENG-CHUNG | |
| Notice of Allowability | Examiner | Art Unit | |
| | SATH V. PERUNGAVOOR | 2624 | |
| | SATT V. FERUNGAVOOR | 2024 | |
| The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED in this a or other appropriate communicati GHTS. This application is subject | application. If not included on will be mailed in due course. THIS | |
| 1. This communication is responsive to <u>interview on 4/6/2009</u> |). | | |
| 2. ☑ The allowed claim(s) is/are <u>1-40</u> . | | | |
| 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have | | | |
| 2. ☐ Certified copies of the priority documents have | | | |
| 3. ☐ Copies of the certified copies of the priority documents have | | | |
| International Bureau (PCT Rule 17.2(a)). | cuments have been received in th | is national stage application from the | |
| * Certified copies not received: | | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | | ly complying with the requirements | |
| 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give | | | |
| 5. CORRECTED DRAWINGS (as "replacement sheets") mus | st be submitted. | | |
| (a) ☐ including changes required by the Notice of Draftspers | on's Patent Drawing Review(PT | O-948) attached | |
| 1) ☐ hereto or 2) ☐ to Paper No./Mail Date | | | |
| (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date | s Amendment / Comment or in the | e Office action of | |
| Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the | | | |
| 6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT | | | |
| | | | |
| Attachment(s) 1. ☑ Notice of References Cited (PTO-892) | 5. | l Patent Application | |
| 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) | 6. ☐ Interview Summa | | |
| 3. ☐ Information Disclosure Statements (PTO/SB/08), | — Paper No./Mail □ 7. ☑ Examiner's Amer | Date | |
| Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit | 8. 🛛 Examiner's State | ment of Reasons for Allowance | |
| of Biological Material | 9. | | |
| | | | |

Application/Control Number: 10/796,864 Page 2

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EXAMINER'S AMENDMENT

[1] An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

[2] Authorization for this examiner's amendment was given in a telephone interview with Mr. Donald B. Paschburg (Reg. No. 33.753) on April 6, 2009.

The application has been amended as follows:

[3] <u>IN CLAIM 1, AFTER LINE 2</u>: Please create a new line between line 2 and line 3 in claim 1 and insert the following in the new line, "a computer performing the following:"

REASONS FOR ALLOWANCE

- [4] The following is an examiner's statement of reasons for allowance: The instant invention is related to medical image segmentation.
- [5] Prior art was found for and applied in the previous actions Applicant uniquely claimed a distinct feature in the instant invention, which are not found in the prior art, either singularly or in combination. The feature being "selecting a range of new 2D image slices with the arbitrary viewing vector disposed normal thereto from within the octant view of the 3D image" and "performing 2D segmentation on the selected slices to obtain a segmented 3D object". This feature is not found or suggested in the prior art.

Art Unit: 2624

- [6] Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- [7] Claims 1-40 are allowed.

Contact Information

[8] Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mr. Sath V. Perungavoor whose telephone number is (571) 272-7455. The examiner can normally be reached on Monday to Friday from 8:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Matthew C. Bella whose telephone number is (571) 272-7778, can be reached on Monday to Friday from 9:00am to 5:00pm. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit: 2624

Dated: April 9, 2009

/Matthew C Bella/ Supervisory Patent Examiner, Art Unit 2624

Sath V. Perungavoor Telephone: (571) 272-7455